

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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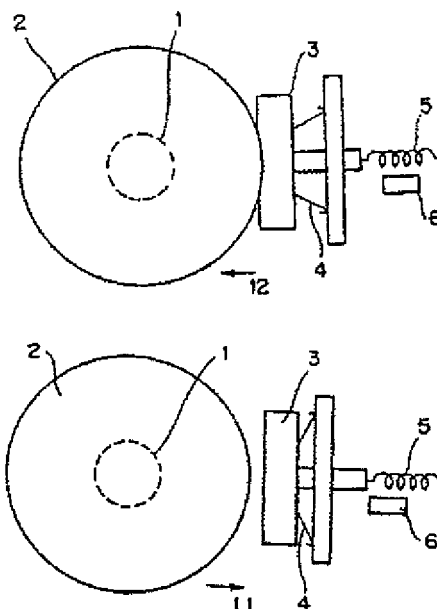
APPLICATION DATE : 25-05-89  
APPLICATION NUMBER : 01130226

APPLICANT : NEC ENG LTD;

INVENTOR : TOMARI MASAO;

INT.CL. : G11B 19/22

TITLE : MAGNETIC DISK DEVICE



**ABSTRACT :** PURPOSE: To gradually work the withdrawal of a brake pad arm from a holder and the effect of the brake pad arm upon the holder by making the brake pad arm out of a shape memory alloy in its spring for attaching and detaching the holder.

CONSTITUTION: When a heater 6 is to be heated up, the spring 5 made of the shape memory alloy positioned in the vicinity of this heater 6 is to be moved in its withdrawing motion shrinking with heat radiated by the heater 6, i.e. the movement of shrinking withdrawal. Force in the direction of an arrow 11 caused by shrinking and withdrawing the spring 5 is increased to be stronger than force of a spring 4 in the direction of an arrow 12, i.e. pressing force of the brake pad arm 3 against the holder 2, thus moving the brake pad arm 3 in the direction of the arrow 11. The brake pad arm 3 is withdrawn from the holder 2 so that the holder is under the released state, releasing itself from this lock while a spindle motor 1 is put under the movable state. By this method, the withdrawal of the brake pad from the holder 2 can gradually be performed in course of time without creating a sudden locking action.

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